

What is claimed is:

1. An image forming device comprising:

an image forming unit that forms an image on a recording medium;

5 a frame that supports the image forming unit and that selectively supports a manual feed unit having a guide unit that supports and guides a single sheet of recording medium to the image forming unit and a multipurpose unit having a supply unit that supports a stack of recording medium and
10 supplies a single sheet of the stack of recording medium to the image forming unit, the frame having a first mounting unit to which the manual feed unit is attached and a second mounting unit to which the multipurpose unit is attached;
and

15 a fixing member provided to the frame, the fixing member being capable of mounting a trigger unit that switches between an operating state and an idle state of the supply unit when the multipurpose unit is attached to the second mounting unit.

20 2. The image forming device according to claim 1, wherein the first mounting unit swingably supports the manual feed unit.

3. The image forming device according to claim 1, wherein the second mounting unit supports a mounting frame
25 of the multipurpose unit that supports the supply unit of

the multipurpose unit.

4. The image forming device according to claim 1,
wherein the image forming unit is detachably mounted on the
frame, the image forming unit being detachable from the
5 frame when pulled in a detaching direction, and the second
mounting unit is provided to the frame at a side facing the
detaching direction.

5. The image forming device according to claim 1,
wherein the frame is formed with an exposure hole for
10 exposing a gear of the multipurpose unit that transmits a
drive force to the supply unit.

6. The image forming device according to claim 5,
wherein the frame is provided with a shielding-member-fixing
unit at a position near the exposure hole, the shielding-
15 member-fixing unit being for fixing a shielding member to
cover the exposure hole.

7. The image forming device according to claim 1,
further comprising a main casing and the manual feed unit,
the main casing being provided with an engaging member,
20 wherein the manual feed unit includes:

a cover swingably supported on the first mounting unit,
the cover being swingable between an open state and a closed
state, wherein the image forming unit is detachable from the
frame when the cover is in the open state;

25 the guide unit including a manual feed tray supported

on the cover so as to be swingable between an open state and a closed state, the manual feed tray in the open state supporting the single sheet of recording medium;

5 a hook disposed on a free end of the cover, the hook being engageable with the engaging member to maintain the cover in the closed state; and

a release button that disengages the hook from the engaging member.

8. The image forming device according to claim 1,
10 further comprising the multipurpose unit, the multipurpose unit including:

a mounting frame supported on the second mounting unit of the frame;

15 a cover swingably supported on the mounting frame, the cover being swingable between an open state and a closed state, wherein the image forming unit is detachable from the frame when the cover is in the open state; and

the supply unit that includes a multipurpose tray swingably supported on the mounting frame, the multipurpose
20 tray being swingable independent from the cover between an open state and a closed state, the multipurpose tray in the open state supporting the stack of recording medium.

9. The image forming device according to claim 8,
wherein the supply unit further includes a feed unit
25 supported by the mounting frame, the feed unit including a

feed member that feeds the single sheet of the stack of recording medium on the multipurpose tray to the image forming unit and a separating member that separates the single sheet of recording medium from the stack of recording medium in cooperation with the feed member.

10. The image forming device according to claim 9, wherein the supply unit of the multipurpose unit further includes:

a first support member that supports the separating member;

a second support member that swingably supports the first support member;

an urging member that urges the first support member to press the separating member onto the feed member; and

a regulating member formed of a metal plate with a first surface and a second surface, the first surface of the regulating member being fixed to the second support member, the regulating member regulating a swingable range of the first support member by abutting the first support member with the second surface.

11. The image forming device according to claim 10, wherein the first support member is made of a molded metal plate.

12. The image forming device according to claim 10, wherein the second support member is formed of a resin

including a reinforcing material.

13. An image forming device comprising:

an image forming unit that forms an image on a recording medium; and

5 a frame that detachably supports the image forming unit and that selectively supports a manual feed unit having a guide unit that supports and guides a single sheet of recording medium to the image forming unit and a multipurpose unit having a supply unit that supports a stack
10 of recording medium and supplies a single sheet of the stack of recording medium to the image forming unit, the frame including a first mounting unit and a second mounting unit, the frame being formed with an opening through which the image forming unit is mounted to and detached from the frame,
15 wherein

the first mounting unit is capable of swingably mounting the manual feed unit that includes a cover that covers the opening of the frame and a guide unit that supports and guides a single sheet of recording medium to
20 the image forming unit; and

the second mounting unit is capable of mounting the multipurpose unit that includes a cover that covers the opening of the frame and a supply unit that supports a stack of recording medium and supplies a single sheet of the stack
25 of recording medium to the image forming unit.

14. The image forming device according to claim 13, wherein the second mounting unit supports a mounting frame of the multipurpose unit that supports the supply unit of the multipurpose unit.

5 15. The image forming device according to claim 13, wherein the image forming unit is detachable from the frame when pulled in a detaching direction, and the second mounting unit is provided to the frame at a side facing the detaching direction.

10 16. The image forming device according to claim 13, wherein the frame is formed with an exposure hole for exposing a gear of the multipurpose unit that transmits a drive force to the supply unit.

15 17. The image forming device according to claim 16, wherein the frame is provided with a shielding-member-fixing unit at a position near the exposure hole, the shielding-member-fixing unit being for fixing a shielding member to cover the exposure hole.

20 18. The image forming device according to claim 13, further comprising a main casing and the manual feed unit, the main casing being provided with an engaging member, wherein the manual feed unit includes:

the cover swingably supported on the first mounting unit, the cover being swingable between an open state and a
25 closed state, wherein the image forming unit is detachable

from the frame when the cover is in the open state;

the guide unit including a manual feed tray supported on the cover so as to be swingable between an open state and a closed state, the manual feed tray in the open state supporting the single sheet of recording medium;

a hook disposed on a free end of the cover, the hook being engageable with the engaging member to maintain the cover in the closed state; and

a release button that disengages the hook from the engaging member.

19. The image forming device according to claim 13, further comprising the multipurpose unit, the multipurpose unit including:

a mounting frame supported on the second mounting unit of the frame;

the cover swingably supported on the mounting frame, the cover being swingable between an open state and a closed state, wherein the image forming unit is detachable from the frame when the cover is in the open state; and

the supply unit that includes a multipurpose tray swingably supported on the mounting frame, the multipurpose tray being swingable independent from the cover between an open state and a closed state, the multipurpose tray in the open state supporting the stack of recording medium.

20. The image forming device according to claim 19,

wherein the supply unit further includes a feed unit supported by the mounting frame, the feed unit including a feed member that feeds the single sheet of the stack of recording medium on the multipurpose tray to the image forming unit and a separating member that separates the single sheet of recording medium from the stack of the recording medium in cooperation with the feed member.

21. The image forming device according to claim 20, wherein the supply unit of the multipurpose unit further includes:

a first support member that supports the separating member;

a second support member that swingably supports the first support member;

an urging member that urges the first support member to press the separating member onto the feed member; and

a regulating member formed of a metal plate with a first surface and a second surface, the first surface of the regulating member being fixed to the second support member, the regulating member regulating a swingable range of the first support member by abutting the first support member with the second surface.

22. The image forming device according to claim 21, wherein the first support member is made of a molded metal plate.

23. The image forming device according to claim 21, wherein the second support member is formed of a resin including a reinforcing material.